National Heart, Lung, and Blood Institute <a href="http://www.nhlbi.nih.go">http://www.nhlbi.nih.go</a>v

FOR IMMEDIATE RELEASE January 26, 2012 11 a.m. EST Contact:
NHLBI Communications Office
(301) 496-4236
NHLBI news@nhlbi.nih.gov

NIH launches trials to evaluate CPR and drugs after sudden cardiac arrest

The National Institutes of Health has launched two nswide-clinical trials to evaluate treatments for-out of-hospital cardiac arrest. One will compare continuches compressions (CCC) combined with pause-free rescue breathing to standard cardiopulmones yscitation (CPR), which includes a combination of chest compressions and pauses for rescue breathing of trial will compare treatment with the drug amiodarone, another drug called brakine, or neither medication (a salt-water placebo) in participants with shockresistant ventricular fibrillation, a condition which the heart beats chaotically instead of pumping blood.

The majority of the approximately 350,000 people whose cardiac arrest in the United States each year are assessed by emergency medical service (EMS) providers. During a cardiac arrest, the heart stops beating, and unless it is restarted within minutes precious usually dies. Although immediate CPR can be lifesaving, more than 90 percent of people whose rience a cardiac arrest outside of a hospital die before reaching a hospital or soon thereafter.

"Increasing survival rates for people who experience of thospital cardiac arrest is a major public health goal," said Susan B. Shurin, M.D., acting directother NIH's National Heart, Lung, and Blood Institute, which is the lead federal sponsor of the studies new trials could provide critical insight about which resuscitation efforts are most effective for cardiac arrest."

The trials will serve a combined population of the 21 million people from diverse urban, suburban, and rural regions across the U.S. and Canada.

The CCC trial will compare survival b-hospital discharge rates for two CPR approaches delivered by paramedics and fire fighters. Persons experimencardiac arrest will be randomly assigned to receive continuous chest compressions, or standard CPR responders. Standard CPR, the approach recommended by the American Heart Associat(AHA) for use by emergency responders, includes chest compressions with short pauses for assisted breatfinis approach has been called into question by emerging data suggesting that stopping cheraposessions to provide assisted breathing interrupts overall blood flow, thereby lowering survival.

Previous studies have shown that people who suffdiacaarrest outside of the hospital and are treated by bystanders are more likely survive when given compressions alone, according to Graham Nichol, M.D., M.P.H., principal investigator of the CCC trænd a professor of medicine and director of the Center for Prehospital Emergencyreand medical director of the Clinical Trials Center at the

- Portland Resuscitation Outcomes Consortium, Oretical and Science University (ALPS only)
- Pittsburgh Resuscitation Network, Wersity of Pittsburgh (CCC only)
- Dallas-Fort Worth Center for Resuscitation Resteat/University of Texas Southwestern Medical Center
- Seattle-King County Center for Resuscitation Research, University of Washington
- Milwaukee Resuscitation Network/edical College of Wisconsin
- University of Ottawa Collaborative Regionab@dinating Centre, Ottawa Hospital Research Institute, Canada
- University of British Columbia Collaborative Regial Coordinating Centre, St. Paul's Hospital, Canada
- Rescu, Keenan Research Centre, Li Ka S**king**wledge Institute, St. Michael's Hospital, University of Toronto, Canada

Both trials will be coordinated by the niversity of Washington in Seattle.

Find out more about the CCC trial <a href="http://clinicaltrials.gov/ct2/show/NCT013727">http://clinicaltrials.gov/ct2/show/NCT013727</a> about ALPS at <a href="http://clinicaltrialsgov/ct2/show/NCT01401647">http://clinicaltrialsgov/ct2/show/NCT01401647</a>

For additional information or to arrange an interw with an NHLBI spokesperson, please contact the